## Amendments to the Claims

- 1. (currently amended) A method comprising:
- a) applying a die attach adhesive composition to a substrate,
- b) curing the die attach adhesive composition to form a die attach adhesive,
- c) plasma treating a surface of the die attach adhesive,
- d) plasma treating a surface of a semiconductor die,
- e) contacting the plasma treated surface of the semiconductor die with the plasma treated surface
  of the die attach adhesive.
- f) wire bonding the semiconductor die to the substrate,
- g) injection molding a silicone composition over the product of step f), where the silicone composition fills voids in the wire bonded semiconductor die and forms a hermetic seal over the substrate, thereby protecting it from environmental exposure, and optionally h) forming solder balls on a surface of the substrate opposite the die attach adhesive.
- (original) The method of claim 1, where the die attach adhesive comprises a silicone die attach adhesive.
- (canceled)
- 4. (previously presented) The method of claim 1, where the silicone composition cures to form an over mold having a modulus of 25 to 1,000 megaPascals, and where the silicone composition has a viscosity of 80 to 3000 Poise and a curing profile such that the silicone composition cures in 30 to 120 seconds at a temperature of 80 to 240 °C.
- 5. (original) The method of claim 4, where step g) comprises:
- i) placing the product of step e) or the product of step f) in an open mold,
- ii) closing the mold to form a mold cavity,

- iii) heating the mold cavity,
- iv) injection molding a curable liquid into the mold cavity to overmold the semiconductor die on the substrate.
- v) opening the mold and removing the product of step iv), and optionally vi) post-curing the product of step v).
- (canceled)
- (currently amended) A method comprising:
- i) placing a semiconductor device in an open mold,
- ii) closing the mold to form a mold cavity,
- iii) heating the mold cavity,
- iv) injection molding a curable liquid comprising a silicone composition into the mold cavity to overmold the semiconductor device,
- v) opening the mold and removing the product of step iv), and optionally vi) post-curing the product of step v);
- with the provisos that the silicone composition has a viscosity of 80 to 3000 Poise, and a cured product of the silicone composition has a modulus of 100 to 1.000 megaPascals.
- 8. (original) The method of claim 7, where the semiconductor device comprises a substrate, a die attach adhesive, and an integrated circuit, wherein the integrated circuit is attached to a surface of the substrate through the die attach adhesive, and where the integrated circuit is wire bonded to the surface of the substrate.
- 9. (original) The method of claim 7, where step ii) is carried out by applying a clamping force of 1 to 27 tons

- (previously presented) The method of claim 7, where the silicone composition forms an
  optically clear material upon cure.
- 11. (original) The method of claim 7, where step iii) is performed at a temperature of 80 to 180 °C.
- 12. (original) The method of claim 7, wherein step iv) is carried out at an injection speed sufficient to provide a pressure of 0.6 to 2.0 MPa force in the mold cavity.
- 13. (canceled)
- (canceled)
- 15. (original) A method comprising:
  - a) applying a die attach adhesive composition to a substrate,
  - b) attaching a semiconductor die to the die attach adhesive composition,
  - c) curing the die attach adhesive composition to form a die attach adhesive,
  - optionally d) wire bonding the semiconductor die to the substrate, and
  - e) injection molding a curable liquid over the semiconductor device formed as the product of step c) or step d), wherein injection molding is carried out by a method comprising
    - i) placing the semiconductor device in an open mold,
    - ii) closing the mold to form a mold cavity,
    - iii) heating the mold cavity,
    - iv) injection molding a curable liquid into the mold cavity to overmold the semiconductor device,
    - v) opening the mold and removing the product of step iv), and

optionally vi) post-curing the product of step v);
with the provisos that the curable liquid has a viscosity of 80 to 3000 Poise, and a cured product has a modulus of 100 to 1,000 megaPascals.

- 16. (original) A method comprising:
  - a) attaching a semiconductor die to a substrate to form a semiconductor device, and b) injection molding a curable liquid over the semiconductor device by a method
- b) injection molding a curable liquid over the semiconductor de comprising
  - i) placing the semiconductor device in an open mold,
  - ii) closing the mold to form a mold cavity,
  - iii) heating the mold cavity,
  - iv) injection molding a curable liquid comprising a silicone composition into the mold cavity to overmold the semiconductor device,
  - v) opening the mold and removing the product of step iv), and optionally vi) post-curing the product of step v);
  - with the provisos that the silicone composition has a viscosity of 80 to 3000 Poise, and a cured product of the silicone composition has a modulus of 100 to 1,000 megaPascals.